

## CLAIMS:

1. An entry system which includes a base station (1) and at least one auxiliary station (2), the base station (1) transmitting a request bit sequence which is modulated on an RF carrier and comprises n data words of at least one bit each to the auxiliary station (2) in order to grant entry to the auxiliary station (2), which auxiliary station retransmits a response  
5 bit sequence which is modulated on an RF carrier and comprises m data words of at least one bit each to the base station (1), the base station (1) comparing the response time between the transmission of at least a few data words of the request bit sequence and the reception of the respective associated data words of the response bit sequence with a permissible response time, the auxiliary station (2) being granted entry only if the permissible response time for the  
10 tested data words of a response has been exceeded a number of times which is smaller than the value imposed by a maximum error count.
2. An entry system as claimed in claim 1, characterized in that the base station (1) determines the response time of the respective associated data word of the response bit  
15 sequence each time after the transmission of a data word of the request bit sequence, compares it with the maximum permissible response time, and transmits the next data word of the request bit sequence only after that.
3. An entry system as claimed in claim 1, characterized in that the request bit  
20 sequence and the response bit sequence form part of a challenge response entry system.
4. An entry system as claimed in claim 1, characterized in that the base station (1) expects a respective associated data word of the response bit sequence only in response to a few predetermined data words of the request bit sequence.  
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5. An entry system as claimed in claim 1, characterized in that the maximum response time is variable, that is, notably adaptable to actually occurring response times.

6. An entry system as claimed in claim 1, characterized in that the retransmission of a data word in the response bit sequence is dependent on the contents of the associated data word of the request bit sequence.
- 5 7. An entry system as claimed in claim 6, characterized in that the retransmission of a data word of the response bit sequence in response to an associated data word of the request bit sequence takes place only if the data word of the response bit sequence has a predetermined logic bit value.
- 10 8. An entry system as claimed in claim 6, characterized in that the retransmission of a data word of the response bit sequence in response to an associated data word of the request bit sequence takes place in dependence on data present in the base station.
9. The use of an entry system as claimed in one of the claims 1 to 8 in a vehicle.